



005/012
UNITED STATES DEPARTMENT OF COMMERCE
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JULY 09, 2001

PTAS
 EPSON RESEARCH AND DEVELOPMENT INC.
 MICHAEL T. GABRIK
 INTELLECTUAL PROPERTY DEPARTMENT
 150 RIVER OAKS PARKWAY, SUITE 225
 SAN JOSE, CA 95134



101690890A

UNITED STATES PATENT AND TRADEMARK OFFICE
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THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/16/2001

REEL/FRAME: 011719/0620
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
SHU, JOSEPH

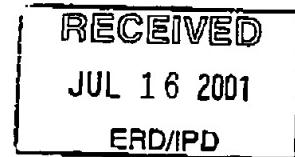
DOC DATE: 03/07/2001

ASSIGNOR:
CHEN, JAU-YUEN

DOC DATE: 03/07/2001

ASSIGNOR:
LIN, TSUNG-NAN

DOC DATE: 03/27/2001

ASSIGNEE:
EPSON RESEARCH AND DEVELOPMENT,
INC.
150 RIVER OAKS PARKWAY, SUITE 225
SAN JOSE, CALIFORNIA 95134SERIAL NUMBER: 09766122
PATENT NUMBER:FILING DATE: 01/18/2001
ISSUE DATE:

011719/0620 PAGE 2

SHARON LATIMER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

Form PTO-1595
1-81-92RECORDATION FORM COVER SHEET
PATENTS ONLY

04-27-2001



101690890

To The Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

1. Name of conveying party(ies): Joseph Shu Jau-Yuen Chen Tsung-Nan Lin 4-16-01		2. Name and address of receiving party(ies): Name: <i>Epson Research and Development, Inc.</i> Internal Address: Street Address: <i>150 River Oaks Parkway, Suite 225 San Jose, California 95134</i>	
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Additional name(s) and address attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other			
Execution Date: March 7, 2001, March 7, 2001 and March 27, 2001 respectively			
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is:			
A. Patent Application No(s). 09/766,122		B. Patent No(s). Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name and address of party to whom correspondence concerning document should be mailed: Intellectual Property Department Epson Research And Development Inc. 150 River Oaks Parkway, Suite 225 San Jose, CA 95134		6. Total number of applications and patents involved: 1	
		7. Total fee (37 CFR 3.41) \$40 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account.	
		8. Deposit Account Number: <u>19-2746</u>	

DO NOT USE THIS SPACE

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any copy is a true copy of the original document.**Michael T. Gabrik*
Registration No. 32,896*Michael T. Gabrik*

Date: April 12, 2001

Total number of pages including cover sheet, attachments and document:

2

Docket No. AP102HO

PATENT

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/WE, the undersigned,

Joseph Shu, Jau-Yuen Chen and Tsung-Nan Lin,
who have created a certain invention for which an application for United States Letters Patent has been filed on January 18, 2001, Serial No. 09/766,122 and entitled

IMAGE ARTIFACT REMOVAL TECHNIQUE FOR LCP

Do hereby sell, assign and transfer to EPSON RESEARCH AND DEVELOPMENT, INC., a corporation of California, having a place of business at 150 River Oaks Parkway, Suite 225, San Jose, CA 95134, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties;

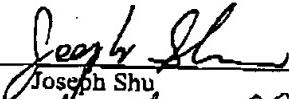
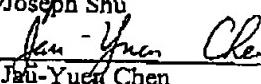
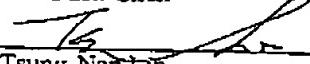
Agree that EPSON RESEARCH AND DEVELOPMENT, INC., hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, its successors, assigns, or legal representatives; and

Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN TESTIMONY WHEREOF I/WE have hereunto set MY/OUR signature on the date indicated below.

Date: 3/7/01
Month/Day/Year
Date: 3/7/01
Month/Day/Year
Date: 3/27/2001
Month/Day/Year

Assignment
Customer No. 20178


Joseph Shu

Jau-Yuen Chen

Tsung-Nan Lin

Rev 11/97



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
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JULY 16, 2001

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EPSON RESEARCH AND DEVELOPMENT INC.
MICHAEL T. GABRIK
INTELLECTUAL PROPERTY DEPARTMENT
150 RIVER OAKS PARKWAY, SUITE 225
SAN JOSE, CA 95134



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RECORDATION DATE: 04/19/2001

REEL/FRAME: 011745/0219
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

EPSON RESEARCH AND DEVELOPMENT,
INC.

DOC DATE: 04/13/2001

ASSIGNEE:

SEIKO EPSON CORPORATION
4-1 NISHISHINJUKU 2-CHOME,
SHINJUKU-KU
TOKYO, JAPANSERIAL NUMBER: 09766122
PATENT NUMBER:FILING DATE: 01/18/2001
ISSUE DATE:

SHARON LATIMER, EXAMINER
ASSIGNMENT DIVISION
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RECORDATION FORM COVER SHEET
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AP102HO

To The Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

<p>1. Name of conveying party(ies): Epson Research And Development, Inc. 150 River Oaks Parkway, Suite 225 San Jose, California 95134</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p> <p>Execution Date: April 13, 2001</p>		<p>2. Name and address of receiving party(ies): Name: Seiko Epson Corporation Internal Address: 19 Street Address: 4-1 Nishishinjuku 2-Chome, Shinjuku-ku, Tokyo, Japan</p> <p>Additional name(s) and addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		
<p>4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is:</p> <table border="0"> <tr> <td>A. Patent Application No(s). 09/766,122</td> <td>B. Patent No(s).</td> </tr> </table> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>			A. Patent Application No(s). 09/766,122	B. Patent No(s).
A. Patent Application No(s). 09/766,122	B. Patent No(s).			
<p>5. Name and address of party to whom correspondence concerning document should be mailed: Intellectual Property Department Epson Research And Development Inc. 150 River Oaks Parkway, Suite 225 San Jose, CA 95134</p> <p>(5/12/2001 ASN#00000199 192746 09766122)</p> <p>01/05/01 40.00 CH</p>		<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 3.41) \$40 <input checked="" type="checkbox"/> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account.</p> <p>8. Deposit Account Number: 19-2746</p>		
<p>9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any copy is a true copy of the original document.</i> <u>Michael T. Gabrik</u> <u>Michael T. Gabrik</u> Date: April 17, 2001 Registration No. 32,896</p>				
<p>Total number of pages including cover sheet, attachments and document:</p>		9		

ASSIGNMENT
Corporate

EPSON RESEARCH AND DEVELOPMENT, INC., a California corporation, having a principal place of business at 150 River Oaks Parkway, Suite 225, San Jose, CA 95134 (hereafter the "Assignor"), is the owner by respective Assignment of United States Patent Application identified below (hereafter sometimes called the "Patent Application").

SEIKO EPSON CORPORATION, a corporation of Japan, having a place of business at 4-1 Nishishinjuku 2-chome, Shinjuku-ku Tokyo, Japan (hereafter the "Assignee"), desires to acquire all of the rights to the Patent Application and all inventions described and claimed therein.

THEREFORE, in consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to it, Assignor hereby sells and assigns to the Assignee the entire right, title and interest in and to the Patent Application identified below, and all inventions described and claimed therein, in any and all Letters Patent therefor, and in any and all reissues, extensions, renewals, reexaminations, divisions and continuations of such applications or Letters Patent to the full end of the term or terms for which such Letters Patent issue, such entire right, title and interest to be held and enjoyed by the above-named Assignee the same as they would have been held and enjoyed by the Assignor had this Assignment and sale not been made.

<u>ERD Case No.</u>	<u>U. S. Serial No.</u>	<u>U. S. Filing Date</u>	<u>Title</u>
AP102HO	09/766,122	January 18, 2001	Image Artifact Removal Technique For LCP

By its undersigned representative, the Assignor agrees

- a. to execute all papers necessary in connection with the Patent Application and any continuing, divisional, reissue, reexamination or corresponding application thereof and also to execute separate Assignment in connection with such application as the Assignee may deem necessary or expedient;
- b. to execute all papers necessary in connection with any interference which may be declared concerning the Patent Application or any continuation, division, reissue or reexamination thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference; and

c. to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee on any of the Patent Application and on any continuation, division, reissue or reexamination of any of the Patent Application.

The Assignor hereby covenants that it has the full right to convey the entire interest herein assigned, and that it has not executed, and will not execute, any agreement in conflict therewith.

EPSON RESEARCH AND DEVELOPMENT, INC., a California corporation, certifies that it is the Assignee of the entire right, title and interest in the Patent Application identified above by virtue of Assignment from the inventors of the Patent Application identified above. Assignment to be recorded in the Patent and Trademark Office as identified below.

<u>ERD</u> <u>Case No.</u>	<u>U.S.</u> <u>Serial No.</u>	<u>Assignment</u> <u>Execution Date</u>
AP102HO	09/766,122	March 7, 2001 and March 27, 2001

The undersigned has reviewed the documents in the Patent Application identified above and, to the best of undersigned's knowledge and belief, title is in the Assignor identified above.

The undersigned is empowered to sign this certificate on behalf of the Assignor.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

IN WITNESS WHEREOF, executed by the Assignor's undersigned representative on the date following the undersigned's name.

EPSON RESEARCH AND DEVELOPMENT, INC.

By: Eishi Momosaki
Title: President
Date: 4-13-2001